JSON or JavaScript Object Notation is a lightweight is a text-based open standard designed for human-readable data interchange. Conventions used by JSON are known to programmers which include C, C++, Java, Python, Perl etc.

- JSON stands for JavaScript Object Notation.
- This format was specified by Douglas Crockford.
- This was designed for human-readable data interchange
- JSON has been extended from the JavaScript scripting language.
- JSON filename extension is .json
- JSON Internet Media type is application/json
- The Uniform Type Identifier is public.json

Uses of JSON

- JSON is used when writing JavaScript based application which includes browser extension and websites.
- JSON format is used for serializing & transmitting structured data over network connection.
- JSON is primarily used to transmit data between server and web application.
- Web Services and API.s use JSON format to provide public data.
- JSON can be used with modern programming languages.

Characterstics of JSON

- It is easy to read and write JSON.
- JSON is lightweight text based interchange format
- JSON is language independent.

Simple Example in JSON

Example shows Books information stored using JSON considering language of books and there editions:

After understanding the above program we will try another example, let's save the below code as **json.htm**:

```
<html>
<head>
<title>JSON example</title>
<script language="javascript" >
 var object1 = { "language" : "Java", "author" : "herbert schildt" };
 document.write("<h1>JSON with JavaScript example</h1>");
 document.write("<br>");
 document.write("<h3>Language = " + object1.language+"</h3>");
 document.write("<h3>Author = " + object1.author+"</h3>");
 var object2 = { "language" : "C++", "author" : "E-Balagurusamy" };
 document.write("<br>");
 document.write("<h3>Language = " + object2.language+"</h3>");
 document.write("<h3>Author = " + object2.author+"</h3>");
 document.write("<hr />");
 document.write(object2.language + " programming language can be studied " +
 "from book written by " + object2.author);
 document.write("<hr />");
</script>
</head>
<body>
</body>
</html>
```

Now let's try to open ison.htm using IE or any other javascript enabled browser, this produces the following result:

JSON with JavaScript example

Language = Java

Author = herbert schildt

Language = C++

Author = E-Balagurusamy

C++ programming language can be studied from book written by E-Balagurusamy

You can refer to JSON Objects chapter about more information on JSON objects.